

**ATTACHMENT D**



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#### Patent Assignment Abstract of Title

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**For pending or abandoned applications please consult USPTO staff.**

**Total Assignments: 1**

Patent #: NONE Issue Dt: Application #: 09903047 Filing Dt: 07/11/2001  
Publication #: US20030205193 Pub Dt: 11/06/2003

Inventors: Yuri V. Melnik, Vitali Soukhozeev, Vladimir Ivantsov, Katie Tsvetkov et al

Title: METHOD FOR ACHIEVING LOW DEFECT DENSITY AIGAN SINGLE CRYSTAL BOULES

**Assignment: 1**

Reel/Frame: 012268/0388 Recorded: 10/15/2001 Pages: 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors:	<u>YURI, V. MELNIK</u>	Exec Dt: 10/02/2001
	<u>SOUKHOVEEV, VITALI</u>	Exec Dt: 10/02/2001
	<u>IVANSTOV, VLADIMIR</u>	Exec Dt: 10/02/2001
	<u>TSVETKOV, KATIE</u>	Exec Dt: 10/03/2001
	<u>DMITRIEV, VLADIMIR A.</u>	Exec Dt: 09/28/2001

Assignee: TECHNOLOGIES AND DEVICES INTERNATIONAL, INC.  
8660 DAKOTA DRIVE  
GAIITHERSBURG, MARYLAND 20877

Correspondent: MCCUTCHEON, DOYLE, BROWN & ENERSEN  
DAVID G. BECK  
THREE EMBARCADERO CENTER  
SAN FRANCISCO, CALIFORNIA 94111

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017/032

**ATTACHMENT E**

**TERMINAL DISCLAIMER TO OBLIVIATE  
DOUBLE PATENTING REJECTION OVER A PRIOR PATENT****Docket Number:  
23600-7006**

In re Patent Application of: Yuri V. Melnik, et al.

Application No. 09/903,047

Filed: July 9, 2001

For: **METHOD FOR ACHIEVING LOW DEFECT AlGaN SINGLE CRYSTAL BOULES****FAX RECEIVED**

MAY 20 2005

**OFFICE OF PETITIONS**

Petitioner is the owner of 100 percent interest in the instant application by assignment, recorded in the Patent and Trademark Office on October 15, 2001 at Reel 012268, Frames 0388. Petitioner is the owner of 100 percent interest in U.S. Application No. 09/901,926 by assignment, recorded in the Patent and Trademark Office on October 15, 2001 at Reel 012268, Frames 0385.

Petitioner hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. § 154 to § 156 and § 173, as presently shortened by any terminal disclaimer, of prior Patent No. 6,261,363 or any patent that would issue from Patent Application No. 09/849,771. Petitioner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patents are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, petitioner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. § 154 to § 156 and § 173 of the prior patents, as presently shortened by any terminal disclaimer, in the event that the prior patent(s) later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR § 1.321, has all claims cancelled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and certifies that, to the best of undersigned's knowledge and belief, title is in the assignee identified above. For submissions on behalf of an organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned (whose title is supplied below) is empowered to act on behalf of the organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date:

1/6/03

Signature:



David G. Beck, Reg. No. 37,776  
Attorney for Applicant

Terminal disclaimer fee under 37 CFR 1.20(d) included.

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ATTACHMENT F



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### Assignments on the Web > Patent Query

#### Patent Assignment Abstract of Title

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**Total Assignments: 1**

**Patent #:** 6576054    **Issue Dt:** 06/10/2003    **Application #:** 09901926    **Filing Dt:** 07/09/2001

**Inventors:** Yuri V. Melnik, Vitali Soukhoveev, Vladimir Ivantsov, Katie Tsvetkov et al

**Title:** METHOD FOR FABRICATING BULK AIGAN SINGLE CRYSTALS

**Assignment: 1**

**Reel/Frame:** 012268/0385    **Recorded:** 10/15/2001    **Pages:** 3

**Conveyance:** ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS).

<b>Assignors:</b> MELNIK, YURI V.	<b>Exec Dt:</b> 10/02/2001
SOUKHOVEEV, VITALI	<b>Exec Dt:</b> 10/02/2001
IVANSTOV, VLADIMIR	<b>Exec Dt:</b> 10/02/2001
TSVETKOV, KATIE	<b>Exec Dt:</b> 10/03/2001
DMITRIEV, VLADIMIR A.	<b>Exec Dt:</b> 09/28/2001

**Assignee:** TECHNOLOGIES AND DEVICES INTERNATIONAL, INC.

8660 DAKOTA DRIVE  
GAIITHERSBURG, MARYLAND 20877

**Correspondent:** MCCUTCHEON, DOYLE, BROWN & ENERSEN  
DAVID G. BECK  
THREE EMBARCADERO CENTER  
SAN FRANCISCO, CALIFORNIA 94111

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**ATTACHMENT G**



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**Patent Assignment Abstract of Title**

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**For pending or abandoned applications please consult USPTO staff.**

**Total Assignments: 3**

**Patent #:** 6261363    **Issue Dt:** 07/17/2001    **Application #:** 09355561    **Filing Dt:** 07/20/1999

**Inventors:** YURY ALEXANDROVICH VODAKOV, EVGENY NIKOLAEVICH MOKHOV, MARK GRIGORIEVICH RAMM et al

**Title:** TECHNIQUE FOR GROWING SILICON CARBIDE MONOCRYSTALS

**Assignment: 1**

**Reel/Frame:** 013475/0067    **Recorded:** 11/13/2002    **Pages:** 7

**Conveyance:** ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS).

<b>Assignors:</b> <u>VODAKOV, YURY ALEXANDROVICH</u>	<b>Exec Dt:</b> 10/21/2002
<u>NOKHOV, EVGENY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>RAMM, MARK GRIGORIEVICH</u>	<b>Exec Dt:</b> 10/24/2002
<u>ROENKOV, ALEXANDR DMITRIEVICH</u>	<b>Exec Dt:</b> 10/24/2002
<u>MAKAROV, YURY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/24/2002
<u>KARPOV, SERGEI YURIEVICH</u>	<b>Exec Dt:</b> 10/24/2002
<u>RAMM, MARK SPIRIDONOVICH</u>	<b>Exec Dt:</b> 10/24/2002
<u>TEMKIN, LEONID IOSIFOVICH</u>	<b>Exec Dt:</b> 10/24/2002

**Assignee:** THE FOX GROUP, INC.  
1154 STEALTH STREET  
LIVERMORE, CALIFORNIA 94550

**Correspondent:** BINGHAM McCUTCHEON, LLP  
DAVID G. BECK  
3 EMBARCADERO CENTER  
SAN FRANCISCO, CA 94111

**Assignment: 2**

**Reel/Frame:** 013484/0366    **Recorded:** 11/13/2002    **Pages:** 5

**Conveyance:** ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS).

<b>Assignors:</b> <u>VODAKOV, YURY ALEXANDROVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>MOKHOV, EVGENY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>RAMM, MARK GRIGORIEVICH</u>	<b>Exec Dt:</b> 10/21/2002
<u>ROENKOV, ALEXANDR DMITRIEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>MAKAROV, YURY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>KARPOV, SERGEI YURIEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>RAMM, MARK SPIRIDONOVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>TEMKIN, LEONID IOSIFOVICH</u>	<b>Exec Dt:</b> 10/24/2002

**Assignee:** FOX GROUP, INC., THE  
1154 STEALTH STREET  
LIVERMORE, CALIFORNIA 94550

**Correspondent:** BINGHAM, MCCUTCHEN, LLP  
DAVID G. BECK  
THREE EMBARCADERO CENTER  
SAN FRANCISCO, CA 94111

**Assignment: 3**

**Reel/Frame:** 013868/0615      **Recorded:** 03/24/2003      **Pages:** 8

**Conveyance:** CORRECTIVE ASSIGNMENT TO CORRECT THE SECOND ASSIGNOR'S NAME, AND THE  
EXECUTION DATES, PREVIOUSLY RECORDED AT REEL 013475 FRAME 0067.  
(ASSIGNMENT OF ASSIGNOR'S INTEREST)

<b>Assignors:</b> <u>VODAKOV, YURY ALEXANDROVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>MOKHOV, EVGENY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>RAMM, MARK GRIGORIEVICH</u>	<b>Exec Dt:</b> 10/21/2002
<u>ROENKOV, ALEXANDR DMITRIEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>MARKAROV, YURY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>KARPOV, SERGEI YURIEVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>RAMM, MARK SPIRIDONOVICH</u>	<b>Exec Dt:</b> 10/22/2002
<u>TEMKIN, LEONID IOSIFOVICH</u>	<b>Exec Dt:</b> 12/24/2002

**Assignee:** FOX GROUP, INC., THE  
1154 STEALTH STREET  
LIVERMORE, CALIFORNIA 94550

**Correspondent:** BINGHAM MCCUTCHEN, LLP  
DAVID G. BECK  
THREE EMBARCADERO CENTER, 18TH FLOOR  
SAN FRANCISCO, CA 94111

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**ATTACHMENT H**



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#### Patent Assignment Abstract of Title

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**Total Assignments: 2**

**Patent #:** 6562131      **Issue Dt:** 05/13/2003 **Application #:** 09849771 **Filing Dt:** 05/04/2001

**Publication #:** US20020083891      **Pub Dt:** 07/04/2002

**Inventors:** Yury Alexandrovich Vodakov, Evgeny Nikolaevich Mokhov, Mark Grigorievich Ramm et al

**Title:** METHOD FOR GROWING SINGLE CRYSTAL SILICON CARBIDE

**Assignment: 1**

**Reel/Frame:** 012546/0784      **Recorded:** 01/24/2002      **Pages:** 7

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

<b>Assignors:</b> <u>VOKAKOV, YURY ALEXANDROVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>MOKHOV, EVGENY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>RAMM, MARK GRIGORIEVICH</u>	<b>Exec Dt:</b> 07/18/2001
<u>ROENKOV, ALEXANDR DMITRIEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>MAKAROV, YURY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>KARPOV, SERGEI YURIEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>RAMM, MARK SPIRIDONOVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>TEMKIN, LEONID LOSIFOVICH</u>	<b>Exec Dt:</b> 10/24/2001

**Assignee:** THE FOX GROUP  
2021 LAS POSITAS COURT, #113  
LIVERMORE, CALIFORNIA 94550

**Correspondent:** MCCUTCHEEN, DOYLE, BROWN & ENERSEN  
DAVID G. BECK  
THREE EMBARCADERO CENTER  
SAN FRANCISCO, CA 94111

**Assignment: 2**

**Reel/Frame:** 012834/0909      **Recorded:** 06/21/2002      **Pages:** 8

**Conveyance:** CORRECTIVE ASSIGNMENT TO CORRECT THE NAME OF THE FIRST ASSIGNOR. FILED ON 1-24-2002 RECORDED ON REEL 012546 FRAME 0784 ASSIGNOR HEREBY CONFIRMS THE ASSIGNMENT OF THE ENTIRE INTEREST.

<b>Assignors:</b> <u>VODOKOV, YURY ALEXANDROVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>MOKHOV, EVGENY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>RAMM, MARK GRIGORIEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>ROENKOV, ALEXANDR DMITRIEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>MAKAROV, YURY NIKOLAEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>KARPOV, SERGEI YURIEVICH</u>	<b>Exec Dt:</b> 10/24/2001
<u>RAMM, SPIRIDONOVICH</u>	<b>Exec Dt:</b> 10/24/2001

**TEMKIN, LEONID IOSIFOVICH**

**Exec Dt:** 10/24/2001

**Assignee:** FOX GROUP, THE  
1154 STEALTH STREET  
LIVERMORE, CALIFORNIA 94550

**Correspondent:** MCCUTCHEEN, DOYLE, BROWN & ENERSEN  
DAVID G. BECK  
THREE EMBARCADERO CENTER  
SAN FRANCISCO, CA 94111

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**ATTACHMENT I**

**TERMINAL DISCLAIMER TO OBVIATE  
DOUBLE PATENTING REJECTION OVER A PRIOR PATENT****Docket Number:  
23600-7003**

In re Patent Application of: Yuri V. Melnik, et al.

Application No. 09/901,926

Filed: July 9, 2001

For: **LOW DEFECT AXIALLY GROWN SINGLE CRYSTAL SILICON CARBIDE**

Petitioner is the owner of 100 percent interest in the instant application by assignment, recorded in the Patent and Trademark Office on October 15, 2001 at Reel 012268, Frames 0385. Petitioner is the owner of 100 percent interest in U.S. Application No. 09/903,047 by assignment, recorded in the Patent and Trademark Office on October 15, 2001 at Reel 012268, Frames 0388.

Petitioner hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. § 154 to § 156 and § 173, as presently shortened by any terminal disclaimer, of prior Patent No. 6,261,363 or any patent that would issue from Patent Application No. 09/849,771. Petitioner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patents are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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The undersigned has reviewed all the documents in the chain of title of the patent application identified above and certifies that, to the best of undersigned's knowledge and belief, title is in the assignee identified above. For submissions on behalf of an organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned (whose title is supplied below) is empowered to act on behalf of the organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date:

1/17/02

Signature:



David G. Beck, Reg. No. 37,776  
Attorney for Applicant

Terminal disclaimer fee under 37 CFR 1.20(d) included.

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029/032

**ATTACHMENT J**

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PTO/SB/05 (03-01)

Approved for use through 10/31/20. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 700624-3001

First Inventor Yuri V. Matnik

Title Method for Achieving Low Defect Density AlGaN Single Crystal Boules

Via Facsimile ED 634119907 US

**APPLICATION ELEMENTS**

See MPEP chapter 800 concerning utility patent application contents.

ADDRESS TO: Commissioner for Patents

PO Box 1450  
Alexandria, VA 22313-1450**ENCLOSURES (check all that apply)**

- Fee Transmittal Form (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing)*
- Applicant claims a small entity status.  
See 37 CFR 1.27.
- Specification 30 Total Pages  
*(preferred arrangement set forth below)*
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed Sponsored R & D
  - Reference to sequence listing, a table or computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s) 12
  - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) 3 Sheets
- Declaration 3 Pages
  - a. Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63(d))  
*(for continuation/divisional with Box 18 completed)*

I.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting Inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)
- Application Data Sheet. See 37 CFR 1.76

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
*(if applicable, all necessary)*
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement Power of Attorney  
*(where there is an assignee)*
11.  English Translation Document (if applicable)
12.  Information Disclosure Statement  
*(IDS/PTO/SB/08A)*  Copies of IDS Citation
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
15.  Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*
16.  Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Statement Under 37 CFR 3.73(b) (copy from prior application)

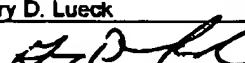
18. If a CONTINUATING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation     Divisional     Continuation-in-part (CIP)

of prior application No. 09/903,047

Group Art Unit: 1765

Prior application information . Examiner Fellisa Carla Hiteshew  
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS** Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or  Correspondence address below

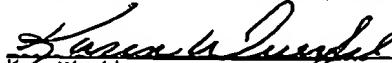
Name	Bingham McCutchen LLP		
Address	Three Embarcadero Center, Suite 1800		
City	San Francisco	State	CA
Country	US	Telephone	(213) 680-6813
Name (Print/Type)	Gary D. Lueck		
Signature			
	Date	May 20, 2005	

**CERTIFICATE OF MAILING BY EXPRESS MAIL**

EXPRESS MAIL NO.: ED 634119907 US

Date of Deposit: May 20, 2005

I hereby certify that this correspondence and all attachments are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

  
Karen Wuerfel

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031/032

**ATTACHMENT K**

**TERMINAL DISCLAIMER TO OBLVIAE  
DOUBLE PATENTING REJECTION OVER A PRIOR PATENT****Docket Number:  
23600-7006**

In re Patent Application of: Yuri V. Melnik, et al.

Application No. 09/903,047

Filed: July 9, 2001

For: **METHOD FOR ACHIEVING LOW DEFECT AlGaN SINGLE CRYSTAL BOULES**

Petitioner is the owner of 100 percent interest in the instant application by assignment, recorded in the Patent and Trademark Office on October 15, 2001 at Reel 012268, Frames 0388. Petitioner is the owner of 100 percent interest in U.S. Application No. 09/901,926 by assignment, recorded in the Patent and Trademark Office on October 15, 2001 at Reel 012268, Frames 0385.

Petitioner hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. § 154 to § 156 and § 173, as presently shortened by any terminal disclaimer, of prior Patent No. 6,261,363 or any patent that would issue from Patent Application No. 09/849,771. Petitioner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patents are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, petitioner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. § 154 to § 156 and § 173 of the prior patents, as presently shortened by any terminal disclaimer, in the event that the prior patent(s) later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR § 1.321, has all claims cancelled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and certifies that, to the best of undersigned's knowledge and belief, title is in the assignee identified above. For submissions on behalf of an organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned (whose title is supplied below) is empowered to act on behalf of the organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 1/6/03Signature: 

David G. Beck, Reg. No. 37,776  
Attorney for Applicant

Terminal disclaimer fee under 37 CFR 1.20(d) included.